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☐ 1: Bioorg Med Chem Lett. 2004 Jun 7;14(11):2927-30.

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Synthesis and DNA binding properties of dioxime-peptide nucleic acids.

Mokhir A, Kramer R, Voloshin YZ, Varzatskii OA.

Anorganisch-Chemisches Institut, Ruprecht-Karls-Universitat Heidelberg,
Im Neuenheimer Feld 270, 69120 Heidelberg, Germany.
andriy.mokhir@urz.uni-heidelberg.de

Peptide nucleic acids (PNAs) C- or N-modified with dioxime ligands were prepared by solid-phase synthesis using iron(II)-clathrochelates as protected dioxime building blocks. These PNA bind complementary DNA sequence specifically, though with much reduced affinity in comparison with nonmodified PNA. The dioxime-PNA conjugates bind Cu²⁺ and Ni²⁺ at microM concentration.

PMID: 15125961 [PubMed - indexed for MEDLINE]

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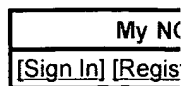
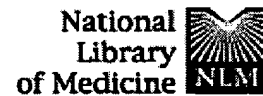
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☐ 1: Bioorg Med Chem. 1998 Mar;6(3):315-22.

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ELSEVIER
FULL-TEXT ARTICLE

Synthesis and hybridization properties of an acyclic achiral phosphonate DNA analogue.

Kehler J, Henriksen U, Vejbjerg H, Dahl O.

Department of Chemistry, H. C. Orsted Institute, University of Copenhagen, Denmark.

Protected N-(2-hydroxyethyl)-N-(nucleobase-acetyl) aminomethanephosphonic⁺⁺ acid (6a-d) of all four DNA nucleobases have been prepared and oligomerized by solid-phase synthesis. Four DNA decamers containing 1-10 of these 'PPNA' monomers were prepared and evaluated by T_m measurements (medium salt) for binding to their DNA and RNA complements. One central modification reduced the binding strongly (delta T_m = -10 degrees C), but contiguous PPNA monomers gave smaller effects, and the all-PPNA decamer bound to RNA with a delta T_m of -1.2 degrees C per modification. Thus PPNA oligomers are inferior DNA and RNA binders compared to the closely related and strongly binding PNA oligomers.

PMID: 9568285 [PubMed - indexed for MEDLINE]

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